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Author Index

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Six-monthly indexes

Cumulative indexes to Science Abstracts are published twice a year covering the period January-June and July-December. They comprise Author and Subject indexes and some specialised or 'small' indexes.

Author index

This lists in alphabetical order all authors of papers abstracted in the abstracts journal during the six months covered by the index, together with the title of the paper. Where there are co-authors of a paper the title of the paper is given only under the name of the first author. The serial number of the paper in the abstracts journal is in the form 2-12345, ie 1972—abstract no. 12345.

'Small' indexes

These are specialised indexes which allow the user to find quickly particular types of information which might be difficult to find using the subject or author indexes.

Bibliography index

In this index reference is made to articles which contain a significant list of references or bibliography on the subjects listed.

Book index

This gives details of books received and abstracted by the abstracts journal.

Patent and Report indexes

These give details of those reports or patents which have been abstracted in the abstracts journal during the past six months.

Conference index

This index lists conferences for which published proceedings have been received and abstracted. Reference is given to the individual papers and their serial numbers in the abstracts journal.

Subject index

The subject index provides an alphabetical subject key to the articles included in the abstracts journal. Some general guidance on its use is given below:

1. Look in the index for the name of the specific subject in which you are interested. In most cases this name will be a heading in the index and you will find relevant articles listed under it.

2. Occasionally you will be directed from the subject heading chosen to a different heading under which the relevant or additional articles are listed.

3. If you do not find the subject heading you first choose, try a more general heading.

4. If you have difficulty at any stage in determining the appropriate heading, consult the Classified List of Headings on the yellow pages at the end of the index. This gives for each broad subject area the headings used in the subject index. Choose the most appropriate and look them up in the index.

5. Each entry under the heading relates to an article appearing in the abstracts journal and gives the serial number of that article in the journal preceded by the last digit of the current year, eg 2—12345: ie Abstract number 12345 in the abstracts journal for 1972.

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Abstr. 2282, 2310, 4656–7, 5041, 5055–6, 7599, 7979, 9071, 9933, 10034, 10068, 10075, 10080, 11198 and 11201–2 of 1972: conference title should read 23rd Annual Southwestern IEEE Conference and Exhibition.

Abstr. 19137, 19541, 19745, 19892 and 19956 of 1972: book title should read *Physics of thin films: advances in research and development.*

Conference Index, 27 April 1972: final entry should be in Report Index overleaf.

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ABU Technical Review Asian Broadcasting Union, NHK Building, 2-3 Uchisaiwai-cho, 2-chome, Chiyoda-ku, Tokyo 100, Japan

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Accountant 151 Strand, London, WC2R 1JJ, England

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ACEC Review Ateliers de Constructions Electriques de Charleroi, Avenue Emile Rousseau, Marcinelle-Charleroi, Belgium

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L'Acqua Associazione Idrotecnica Italiana, Via dei Sabini 7, 00187 Roma, Italy

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Acta Astronomica ARS Polona-Ruch, Warszawa 1, P.O. Box 154, Poland

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Acta Cientifica Instituto de Investigaciones Cientificas y Tecnicas de las Fuerzas Armadas (CITEFA), Tres de Febrero 1250, San Martin, Buenos Aires, Argentina

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Acta Electronica 3 Avenue Descartes, BP 15, 94 Limeil-Brevannes, (Val-de-Marne), France

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Acta Geophysica Polonica Export-Import Enterprise 'RUCH', ul. Wilcza 46, Warszawa 1, Poland

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Acta Informatica Springer-Verlag, D-1000 Berlin 33, Heidelberger Platz 3, Germany

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Acta Manilana. Series A University of Santo Tomas Research Centre, Manila, Philippines

Acta Mech. (Austria)
Acta Mechanica Springer-Verlag, Molkerbastei 5, 1010 Wien, Austria

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Acta Metallurgica Box 1088 Schenectady, NY. Publisher: Pergamon Press, Maxwell House, Fairview Park, Elmsford, N.Y. 10523, USA

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Acta Physica Austriaca Springer-Verlag, A-1011 Wien, Molkerbastei 5, Postfach 367, Austria

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Advances in Applied Probability University of Sheffield, Department of Probability and Statistics, Sheffield, S3 7RH, England

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Adv. Polym. Sci. (Germany)
Advances in Polymer Science (Fortschritte der Hochpolymeren Forschung) Springer-Verlag, 1000 Berlin 33, Heidelberger Platz 3, Germany

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AECL Research in Engineering Atomic Energy of Canada Ltd., Chalk River Nuclear Laboratories, Chalk River, Ontario, Canada

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AEDS Journal Association for Educational Data Systems, 1201 16th Street, N.W., Washington, D.C. 20036, USA

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Aeronautical Quarterly Royal Aeronautical Society 4 Hamilton Place, London, W1V OBO, England

Aerotec. Missili & Spazio (Italy)
L'Aerotecnica Missili e Spazio Via Stradivari, 10-20131 Milano, Italy

Agric. Eng. (USA)
Agricultural Engineering American Society of Agricultural Engineers, 2950 Niles Road, St. Joseph, Mich. 49085, USA

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AIAA Journal American Institute of Aeronautics and Astronautics, 190 Avenue of the Americas, New York, N.Y. 10019, USA

AIChE J. (USA)
A.I.Ch.E. Journal American Institute of Chemical Engineers, 345 East 47th Street, New York, N.Y. 10017, USA

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Albiswerk-Berichte Albiswerk AG, Albisriederstrasse 245, Zurich 8047, Switzerland

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Algorytmy Instytut Maszyn Matemathcznych, Warszawa, Poland

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Allis-Chalmers Engineering Review Milwaukee, Wis. 53201, USA

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Alta Frequenza Associazione Elettrotecnica ed Elettronica Italiana, Via San Paolo 10, 20121 Milano, Italy

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American Journal of Science Kline Geology Laboratory, Yale University, Box 2161, New Haven, Conn. 06520, USA

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American Mineralogist Mineralogical Society of America, 2201 M Street, N.W., Washington, D.C. 20037, USA

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American Scientist Society of Sigma Xi, 155 Whitney Avenue, New Haven, Conn. 06510, USA

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Anais da Academia Brasileira de Ciencias Caixa Postal 229, ZC-00 Rio de Janeiro gb, Brazil

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Anales de Fisica Real Sociedad Espanola de Fisica y Quimica (Facultad de Ciencias), Ciudad Universitaria, Madrid-3, Spain

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Analele Stiintifice ale Universitatu 'Al.I.Cuza' din Iasi (Serie Noua). Sectiunea I Fizica Calea 23 August, Iasi, Rumania

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Analytical Chemistry American Chemical Society, 1155 Sixteenth Street N.W., Washington, D.C. 20036, USA

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Angewandte Elektronik, Mess & Regeltechnik Sprechsaal-Verlag, 8630 Coburg, Mauer 2, P.O. Box 401, Germany

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Angewandte Informatik (Applied Informatics) Friedr. Vieweg & Sohn, 3300 Braunschweig, Burgplatz 1, Postfach 185, Germany

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Annales Academiae Scientiarum Fennicae, Series AI (Mathematica) Vanrikki Stoolinkatu 11b, Helsinki 10, Finland

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Annales de la Faculte des Sciences de l'Universite de Toulouse Gauthier-Villars, 55 Quai des Grands-Augustins, Paris 6, France

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Annali di Geofisica Istituto Nazionale di Geofisica, Citta Universitaria, 00185 Roma, Italy

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Annales de l'Institut Henri Poincare, Section A (Physique Theorique) 11 Rue Pierre-Curie, Paris 5, France

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Annales de la Societe Scientifique de Bruxelles, Serie I, Sciences Mathematiques, Astronomiques et Physiques Rue de Bruxelles 61, B5000 Namur, Belgium

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APL Technical Digest Applied Physics Laboratory, The John Hopkins University, 8621 Georgia Avenue, Silver Spring, Md. 20910, USA

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Applied Acoustics Elsevier Publishing Co. Ltd., Ripple Road, Barking, Essex, England

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Applied Mechanics Reviews American Society of Mechanical Engineers, 345 East 47th Street, New York, N.Y. 10017, USA

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Applied Spectroscopy Society for applied spectroscopy. Subscription address: 8430 Ailenswood Road, Randallstown, Md21133, USA

Appl. Spectrosc. Rev. (USA)
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Archiv fur Elektrotechnik Springer-Verlag, Heidelberger Platz 3, D-1 Berlin 33, Germany

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Archiwum Hutnictwa Export-Import Enterprise 'Ruch', ul. Wilcza 46, Warszawa 1, Poland

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Archiwum Mechaniki Stosowanej EXRIM-RUCH-46, Wronia 23 st., Warszawa, Poland

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Asea Research ASEA Research, S-72183 Vasteras, Sweden

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Aslib Proceedings 3 Belgrave square, London, SW1, England

Ass. Hung. Telecommun. Ind. (Hungary)
Association of the Hungarian Telecommunication Industry KGM MTTI, Budapest IV, Gellert u. 12, Hungary

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Association Canadienne des Bibliothecaires de Langue Francaise Bulletin 360 rue Le Moyne, Montreal 125, Canada

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Astrofizika Academy of the Armenian SSR, Erevan, USSR [English translation in: *Astrophysics (USA)*]

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Atom und Strom Vereinigung Deutscher Elektrizitatswerke, Verlags-u. Wirtschaftsgesellschaft der Elektrizitatswerke, Stresemannallee 23, 6000 Frankfurt (Main) 70, Germany

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Atoom Energie en haar toepassingen Reactor Centrum Netherlands, Scheveningseweg 112, Den Haag, Netherlands

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Automazione e Strumentazione Associazione Nazionale Italiana per l'Automazione, Via Marcona 49, 20129 Milano, Italy

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Aviat. Rev. (GB)
Aviation Review Smiths Industries, Kelvin House, Wembley Park Drive, Wembley, Middx, England

Avtom. & Telemekh. (USSR)
Avtomatika i Telemekhanika Akademiya Nauk SSSR, Leninskii Prosp. 14, Moskva, USSR [English translation in: *Autom. & Remote Contr. (USA)*]

Avtom. & Vychisl. Tekh. (USSR)
Avtomatika i Vychislitel'naya Tekhnika Academy of Sciences of Latvian SSR, Riga, USSR

Avtom. Svarka (USSR)
Avtomaticheskaya Svarka Ukrainian SSR Academy of Sciences, Arc Welding Institute, Kiev, USSR [English translation in: *Autom. Weld. (GB)*]

Avtom. Telemekh. Svyaz (USSR)
Avtomatika, Telemekhanika, Svyaz' 262 Karl Marx Street, 11 Moskva, USSR

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Avtomatika Institution of Cybernetics, 102 Brest-Litovskii Prosp., Kiev 57, USSR [English translation in: *Sov. Autom. Contr. (USA)*]

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Avtometriya Science Publishing House, Siberian Division, Novosibirsk, USSR

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AWA Technical Review AWA Research Laboratories, 422 Lane Cove Road, North Ryde, N.S.W. Australia

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Bauelemente der Elektrotechnik Verlag fur Technik und Wirtschaft GmbH, 62 Wiesbaden, Postfach 1409, Kaiser-Friedrich-Ring 49, Germany

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BBC Engineering British Broadcasting Corporation Publications, 35 Marylebone High Street, London, W1M 4AA, England

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Comput. Aided Des. (GB)
Computer Aided Design IPC Science and Technlogy Press, IPC House, 32 High Street, Guildford, Surrey, England

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Computer Bulletin British Computer Society, 29 Portland Place, London, W1N 4AP, England

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Computer Decisions Hayden Publishing Co., 50 Essex Street, Rochelle Park, N.J. 07662, USA

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Comput. Group News (USA)
Computer Group News Institute of Electrical & Electronics Engineers, 345 East 47th Street, New York, N.Y. 10017, USA

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Computer Information Aslib Computer Information Group, 3 Belgrave Square, London, SW1, England. Editorial address: Alan Pritchard, c/o National Computing Centre Ltd., Quay House, Quay Street, Manchester M3 3HU

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Computer Methods in Applied Mechanics and Engineering North-Holland Publishing Co., P.O. Box 211, Amsterdam, Netherlands

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Computer Physics Communications North-Holland Publishing Co., P.O. Box 3489 Amsterdam-C, Netherlands

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Computer Praxis Verlag R. Oldenbourg, Rosenheimer Strasse 145, 8000 Munchen 80,, Germany

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Computer Programs in Biomedicine North-Holland Publishing Co., P.O.Box 3489, Amsterdam-C, Netherlands

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Computer Weekly International Issued with: *Comput. Wkly. (GB)*

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Comunicaciones Centro de Informacion de Comunicaciones, Ministerio de Comunicaciones, Habana, Cuba

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Contributions from the Institute of Low Temperature Sciences, Series A Hokkaido University, Sapporo, Japan

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CQ Radio Amateur's Journal 14 Vanderventer Avenue, Port Washington, Long Island, N.Y. 11050, USA

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Current Sci. (India)
Current Science Current Science Association, Raman Research Institute, Bangalore 6, India

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Daedalus (Proceedings of the American Academy of Arts and Sciences 280 Newton Street, Brookline Station, Boston, Mass. 02146, USA

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Dokl. Akad. Nauk SSSR
Doklady Akademii Nauk SSSR Leninskii Prosp. 14, Moskva, USSR [English translations of selected articles in: *Sov. Phys.-Dokl. (USA)*]

Dopov. Akad. Nauk UkRSR. Ser. A (USSR)
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Economic Computation and Economic Cybernetics Studies and Research Centre of Economic Computation and Economic Cybernetics, Bucuresti, Rumania

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EDP Analyzer 925 Anza Avenue, Vista, Calif. 92083, USA

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EDP Europa Report IDC Europa Ltd., 59 Grays Inn Road, London, WC1X 8TL, England

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Educational Broadcasting International Wynn Williams (Publishers) Ltd., Centenary Buildings, King Street, Wrexham, Wales

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EEG Clin. Neurophysiol. (Netherlands)
Electroencephalography and Clinical Neurophysiology Elsevier Publishing Co., P.O. Box 211, Amsterdam, Netherlands

EEI Bull. (USA)
EEI Bulletin Edison Electric Institute, 90 Park Avenue, New York, N.Y. 10001, USA

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Eesti NSV Teaduste Akademie Fuusika ja Astronoomia Instituudi Uurimused Na Russkon yayke izdatelstvo 'Vadgus', Tallin, Pyarnuskoe Shosse 10,, USSR

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Electrical Engineering in Japan [Translation of: *J. Inst. Elec. Eng. Jap. (Japan)*] Scripta Publishing Corp., 1511 K Street, N.W., Washington, D.C. 20005, USA

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Electrical Engineering Review West Pakistan University of Engineering and Technology, Lahore-31, Pakistan

Elec. Equip. (GB)
Electrical Equipment Mercury House Business Publications Ltd., Broadwall House, Broadwall, London, SE1 9PN, England

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Electrical Review IPC Electrical-Electronic Press, Dorset House, Stamford Street, London, SE1, England

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Electrical Supervisor Association of Supervisory and Executive Engineers, Wix Hill House, West Horsley, Surrey, England

Elec. Technol. USSR (GB)
Electric Technology USSR [Translation of: *Elektrichestvo (USSR)*] Pergamon Press, Headington Hall Hill, Oxford, OX3 OBW, England

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L'Electricien Centrale des Revues Dunod-Gauthier-Villars, 120 rue du Cherche-Midi, Paris 6, France

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Electricite. Revue de l'Union des Exploitations Electriques en Belgique 4 Galerie Ravenstein, Bruxelles 1000, Belgium

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Electro-Technology Society of Electronic Engineers, High Grounds, Bangalore 1, India

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Electrochimica Acta Pergamon Press, Headington Hill Hall, Oxford, OX3 OBW, England

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Electromyography & Clin. Neurophysiol. (Belgium)
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Electronics and Power. Journal of the Institution of Electrical Engineers Savoy Place, London, WC2R OBL, England

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Electronic Applications Title changed to: *Electron. Appl. Bull. (Netherlands)*

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Electronics in Southern Africa Thomson Newspapers South Africa Ltd., Trust House, Foreshore, P.O. Box 80, Cape Town, South Africa

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Electronics Today 4-A Naaz Bldg., Lamington Road, Bombay-4, India

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Elektrichestvo (USSR)
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Elektrokhimiya Institut-Elektrokhimii. Akademiya Nauk SSSR, Moskva-V71, Leninskii Prospekt 31, USSR [English translation in: *Sov. Electrochem. (USA)*]

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Elektrosvyaz Ministerstvo svyazi SSR, USSR [English translation in: *Telecommun. & Radio Eng. Pt. 1 (USA)*]

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Image Technol. (USA)
Image Technology Acolyte Publications Inc., 647 North Sepulveda Boulevard, Bel Air, Los Angeles, Calif. 90049, USA

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Industrial and Engineering Chemistry, Fundamentals American Chemical Society, 1155 Sixteenth Street N.W., Washington, D.C. 20036, USA

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Industrial and Engineering Chemistry, Process Design and Development American Chemical Society, 1155 Sixteenth Street N.W., Washington, D.C. 20036, USA

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Industries Atomiques & Spatiales Formerly: *Sci. & Ind. Spatiales (Switzerland)* SERTNA S.A., 29 avenue R. Poincare, Paris 16, France

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Indian Journal of Physics 2 and 3 Lady Willingdon Road, Raja Subodhchandra, Mallick Road, Calcutta 32, India

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Indian Journal of Power and River Valley Development 6/2 Madan Street, Calcutta 13, India

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Inf. & Gestion (France)
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Information Bulletin on Isotopic Generators European Nuclear Energy Agency, 38 Boulevard Suchet, 75 Paris 16, France

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Information Display 647 North Sepulveda Boulevard, Bel Air, Los Angeles, Calif. 90049, USA

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Information Processing Letters North-Holland Publishing Co., P.O. Box 3489, Amsterdam-C, Netherlands

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Informacije Rade Koncar Produzece 'Rade Koncar', Post pret. 304, Fallervo Set. 22, Zagreb, Yugoslavia

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INFOR (Canada)
INFOR. Canadian Journal of Operational Research and Information Processing P.O. Box 2225, Station D, Ottawa, Ontario, Canada

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Infrared Physics Pergamon Press, Headington Hill Hall, Oxford, OX3 OBW, England

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Ingenieur (Netherlands)
De Ingenieur Koninklijk Institut van Ingenieurs. Editorial address: 23 Prinsessegracht, Den Haag, Netherlands

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Inorganic and Nuclear Chemistry Letters Pergamon Press, Headington Hill Hall, Oxford, OX3 OBW, England

Inorg. Mater. (USA)
Inorganic Materials [Translation of: *Izv. Akad. Nauk SSSR Neorg. Mater.*] Consultants Bureau, 227 West 17th Street, New York, N.Y. 10011, USA

INSPEL (USA)
INSPEL. International Journal of Special Libraries International Federation of Library Associations, Special Libraries Section, c/o Karl A. Baer, 1625 L Street N.W., Washington, D.C. 20036, USA

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Inst. Eng. Aust. Elec. Eng. Trans. (Australia)
Institution of Engineers, Australia, Electrical Engineering Transactions Science House, Gloucester and Essex Streets, Sydney 2000, N.S.W, Australia

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Institution of Engineers, Australia, Mechanical and Chemical Engineering Transactions Institution of Engineers, Science House, Gloucester and Essex Streets, Sydney, N.S.W, Australia

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Instrument and Control Engineering IPC Electrical-Electronic Press, Dorset House, Stamford Street, London, SE1, England

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Instruments and Control Systems 56th and Chestnut Streets, Philadelphia, Pa. 19139, USA

Instrum. & Exp. Tech. (USA)
Instruments and Experimental Techniques [Translation of: *Pribory & Tekh. Eksp. (USSR)*] Instrument Society of America, 400 Stanwix Street, Pittsburgh, Pa. 15222, USA

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Instruments and Laboratories Dunod, 92 rue Bonaparte, Paris 6, France

Instrum. India
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Instrument Practice Title changed to: *Process Instrum. (GB)*

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Instrumentation Technology Instrument Society of America, 400 Stanwix St., Pittsburgh, Pa. 15222, USA

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Instrumentation Honeywell Inc., Fort Washington, Philadelphia, Pa. 19034, USA

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International Metallurgical Reviews Institute of Metals, 17 Belgrave Square, London, SW1X 8PU, England. American Society for Metals, Metals Park, Ohio 44073, USA

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Inter Connexion Constructeurs Francais de Materiel d'Equipement Electrique, 11 rue Hamelin, Paris 16, France

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Iron and Steel Engineer Association of Iron and Steel Engineers, 1010 Empire Building, Pittsburgh, Pa. 15222, USA

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ISI Bulletin Indian Standards Institution, Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 1, India

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Isotopenpraxis Akademie-Verlag GmbH, 108 Berlin, Leipziger Strasse 3-4, Germany

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Israel Journal of Chemistry Weizmann Science Press, P.O. Box 801, Jerusalem, Israel

Israel J. Technol.
Israel Journal of Technology Weizmann Science Press, P.O. Box 801, 33 King George Avenue Jerusalem, Israel

IVA Tidskr. Tekn.-Vetensk. Forskn. (Sweden)
IVA-Tidskrift for Teknisk-Vetenskaplig Forskning Ingenjorsvetenskapsakademien, Box 5073, 102 42 Stockholm 5, Sweden

Izmer. Tekh. (USSR)
Izmeritel'naya Tekhnika Academy of Sciences USSR Leninskii Prosp., Moskva, USSR [English translation in: *Meas. Tech. (USA)*]

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Izvestiya Akademii Nauk SSSR. Fizika Atmosfery i Okeana Akademiya Nauk SSSR, Leninskii Prosp. 14, Moskva, USSR [English translation in: *Bull. Acad. Sci. USSR. Atmos. & Oceanic Phys. Ser. (USA)*]

Izv. Akad. Nauk SSSR Fiz. Zemli
Izvestiya Akademii Nauk SSSR. Fizika Zemli Akademiya Nauk SSSR, Leninskii Prosp. 14, Moskva, USSR [English translation in: *Izv. Acad. Sci. USSR. Phys. Solid Earth (USA)*]

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Izvestiya Akademii Nauk SSSR Neorganicheskie Materialy 117071 Moskva, V-17, Leninskii Prospekt 31, USSR [English translation in: *Inorg. Mater. (USA)*]

Izv. Akad. Nauk SSSR Ser. Fiz.
Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya Akademiya Nauk SSSR, Leninskii Prosp. 14, Moskva, USSR [English translation in: *Bull. Acad. Sci. USSR, Phys. Ser. (USA)*]

Izv. Akad. Nauk UzSSR Ser. Tekh. Nauk
Izvestiya Akademii Nauk UzSSR. Seriya Tekhnicheskikh Nauk Tashkent, USSR

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Izvestiya Akademii Nauk SSSR Mekhanika Zhidkosti i Gaza Akademiya Nauk SSSR, Leninskii Prosp. 14, Moskva, USSR

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Izvestiya na Fizicheskiya Institut s ANEB Sofiya, Bulgaria

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Izv. Inst. Tekh. Kibern. (Bulgaria)
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Izv. Krymskoj Astrofiz. Obs. (USSR)
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Izvestiya Vysshikh Uchebnykh Zavedenii, Elektromekhanika Novocherkassk. ul. Prosveshcheniya 132, Moskva, USSR

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Izvestiya Vysshikh Uchebnykh Zavedenii, Fizika Higher Education Institutes, Tomsk, USSR [English translation in: *Sov. Phys. J. (USA)*]

Izv. VUZ Gornyi Zh. (USSR)
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Izv. VUZ Radiofiz. (USSR)
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Microwave Journal 610 Washington Street, Dedham Plaza, Dedham, Mass. 02026, USA

Microwaves (USA)
Microwaves Hayden Microwaves Corp., 850 Third Avenue, New York, N.Y. 10022, USA

Mining Technol. (GB)
Mining Technology Association of Mining Electrical and Mechanical Engineers, 62 Talbot Road, Manchester, M16 OPS, England

Minoseg & Megbizhatosag (Hungary)
Minoseg es Megbizhatosag Budapest V, Jozsef Attila u. 24, Hungary. Subscription address: Kultura, Budapest 1, Fo u. 32

Mitsubishi Denki Eng. (Japan)
Mitsubishi Denki Engineer Mitsubishi Electric Manufacturing Co., Mitsubishi Denki Bldg., Marunouchi, Tokyo, Japan

Mitsubishi Denki Lab. Rep. (Japan)
Mitsubishi Denki Laboratory Reports Research Laboratory, Mitsubishi Electric Manufacturing Company, Amagasaki, Japan

Mitsui Tech. Rev. (Japan)
Mitsui Technical Review Mitsui Shipbuilding & Engineering Co. Ltd., 6-4 Tsukiji 5-Chome, Chuo-Ku, Tokyo, Japan

Mitt. AGEN (Switzerland)
Mitteilungen der Arbeitsgemeinschaft fur Elektrische Nachrichtentechnik der Stiftung Hasler-Werke, Bern Geschaftsstelle der AGEN Institut fur Technische Physik, ETH-Aussenstation, Honggerberg Postfach 8049 Zurich, Switzerland

Mitt. Max-Planck-Ges. (Germany)
Mitteilungen aus der Max-Planck-Gesellschaft Munchen 1, Residenzstrasse 1a, Eingang Hofgartenstrasse, Postfach 647, Germany

Mod. Data (USA)
Modern Data Modern Data Services Inc., 3 Lockland Avenue, Framingham, Mass. 01701, USA

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Modern Geology Gordon & Breach Science Publishers Ltd., 41 and 42 William IV Street, London, WC2, England

Mod. Mater. Handl. (USA)
Modern Materials Handling Cahners Publishing Co., 221 Columbus Avenue, Boston, Mass. 02116, USA

Mod. Power & Eng. (Canada)
Modern Power and Engineering Maclean-Hunter Ltd., 481 University Avenue, Toronto 101, Canada

Mod. Ry. (GB)
Modern Railways Ian Allan, Terminal House, Shepperton, Middx., TW17 8AS, England

Mol. Cryst. & Liquid Cryst. (GB)
Molecular Crystals and Liquid Crystals Gordon & Breach Science Publishers Ltd., 41 and 42 William IV Street, London, WC2, England

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Molecular Physics Taylor and Francis, Cannon, House, Macklin Street, London, WC2B 5NF, England

Mon. Not. Astron. Soc. S. Afr. (S. Africa)
Monthly Notes of the Astronomical Society of Southern Africa South African Astronomical Observatory, P.O. Box 9, Observatory, Cape, South Africa

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The Moon D. Reidel Publishing Co., P.O. Box 17, Dordrecht, Netherlands

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Mullard Outlook Central Technical Services, Mullard Ltd., New Road, Mitcham, Surrey CR4 4XY, England

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Munic. Eng. (GB)
Municipal Engineering 3 Clements Inn, London, WC2, England

Nachr. Akad. Wiss. Gottingen 2 (Germany)
Nachrichten der Akademie der Wissenschaften in Gottingen. II. Mathematisch-physikalische Klasse Prinzenstrasse 1, Gottingen, Germany

Nachr. Dok. (Germany)
Nachrichten fur Dokumentation Deutsche Gesellschaft fur Dokumentation, 6000 Frankfurt am Main, Westendstrasse 19, Germany

Nachr. Telef. & Normalzeit (Germany)
Nachrichten der Telefonbau und Normalzeit Postfach 2369, 6 Frankfurt am Main 1, Germany

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Nachrichtentechnische Zeitschrift VDE-Verlag GmbH, Bismarckstrasse 33, 1000 Berlin 12, Germany

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Nauk. & Inf. (USSR)
Naukovedenie i Informatika Izdatel'stvo 'Naukova Dumka', Kiev, Repina 3, USSR

Nav. Archit. (GB)
Naval Architect Royal Institution of Naval Architects, 10 Upper Belgrave Square, London, SW1X 8BQ, England

Nav. Res. Logist. Q. (USA)
Naval Research Logistics Quarterly Office of Naval Research, Arlington, Va. 22217, USA. Subscription address: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402

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Naval Research Reviews Department of the Navy, Office of Naval Research, Arlington, Va.22217, USA

Navigation (France)
Navigation Institut Francaise de Navigation, 3 avenue Octave-Greard, Paris 7, France

NCC Interface (GB)
NCC Interface National Computing Centre Ltd., Quay House, Quay Street, Manchester, M3 3HU, England

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NEC Research and Development Nippon Electric Co., 7-15 Shiba Gochome, Minato-ku, Tokyo, Japan

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Networks Interscience Publishers, 605 Third Avenue, New York, N.Y. 10016, USA

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New Scientist New Science Publications, 128 Long Acre, London, WC2E 9OH, England

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New Zealand Journal of Science Department of Scientific and Industrial Research, Private Bag, Wellington, New Zealand

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Notiziario dell'Istituto di Automatica dell'Universita di Roma Universita Degli Studi, Citta Universitaria, Rome, Italy

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Note Recensioni e Notizie Istituto Superiore Poste Telecommunicazioni, Viale Trastevere 189, Roma, Italy

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Nucleus Pakistan Atomic Energy Commission, P.O. Box 3112, Karachi-29, Pakistan

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Numerische Mathematik Springer-Verlag, 1 Berlin 33, Heidelberger Platz 3, Germany

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Il Nuovo Cimento. A Societa Italiana di Fisica Publication address: Via degli Andalo, 2-Bologna 722, Italy

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Oleodinamica-Pneumatica Via Moscova 46/5 20121 Milano, Italy

Olhydraulik & Pneum. (Germany)
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Omron Tech. (Japan)
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Op. Res. (USA)
Operations Research Operations Research Society of America, 428 East Preston Street, Baltimore, Md. 21202, USA

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Operational Research Quarterly Pergamon Press, Headington Hill Hall, Oxford, OX3 OBW, England

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Optika i Spektroskopiya Akademiya Nauk SSSR, Leninskii Prosp. 14, Moskva, USSR [English translation in: *Opt. & Spectrosc. (USA)*]

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Optica Acta Taylor and Francis, Cannon House, 10-14 Macklin Street, London, WC2B 5NF, England

Opt. Commun. (Netherlands)
Optics Communications North-Holland Publishing Co., P.O. Box 3489, Amsterdam-C, Netherlands

Opt. Eng. (USA)
Optical Engineering Formerly: *J. Soc. Photo-Opt. Instrum. Eng. (USA)* Society of Photo-Optical Instrumentation Engineers, 119 Palos Verdes Boulevard, P.O. Box 288, Redondo Beach, Calif. 90277, USA

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Optica Pura y Aplicada Serrano 121, Madrid 6, Spain

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Optical Spectra Optical Publishing Co., 7 North Street, Pittsfield, Mass. 01201, USA

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Optician 1 Dorset Buildings, Salisbury Square, London, EC4, England

Optik (Germany)
Optik Wissenschaftliche Verlagsgesellschaft, Postfach 40, Stuttgart N, Germany

Optiko-Mekh. Prom. (USSR)
Optiko-Mekhanicheskaya Promyshlennost Vasilov Optical Research Institute, Kaluzhskoye Chausee 32, Moskva, USSR [English translation in: *Sov. J. Opt. Technol. (USA)*]

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Opto-Electronics Chapman and Hall, 11 New Fetter Lane, London, EC4, England

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Orbit Orbit Publishing S.A., 91 route de la Capite, CH-1223 Cologny/Geneva, Switzerland

Oss. & Mem. Oss. Astrofis. Arcetri (Italy)
Osservazioni e Memorie dell'Osservatorio Astrofisico di Arcetri Universita Degli Studi di Firenze, Firenze, Italy

Ost. Ing.-Z. (Austria)
Osterreichische Ingenieur-Zeitschrift Springer-Verlag, Molkerbastei 5, Wien 1, Austria

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Osterreichische Zeitschrift fur Elektrizitatswirtschaft Springer-Verlag, a1011 Wien, Molkerbastei 5, Postfach 367, Austria

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Oyo Buturi (Japan)
Oyo Buturi Japan Society of Applied Physics, Room No.209-2, Kikai-Shinko Building, 21 Shiba-Koen Minato-ku, Tokyo, Japan

Pakistan Eng.
Pakistan Engineer Council of the Institute of Engineers (Pakistan), Ramma, Dacca-2, Pakistan

Pakistan J. Sci.
Pakistan Journal of Science Pakistan Association for the Advancement of Science, 14 Shah Jamal Scheme, Lahore 12, Pakistan

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Pakistan Journal of Scientific and Industrial Research Pakistan Council of Scientific and Industrial Research, 39 Garden Road, Karachi 3, Pakistan

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Institution of Post Office Electrical Engineers, Printed Papers GPO, 2-12 Gresham Street, London, EC2, England

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Periodicum Mathematico-Physicum et Astronomicum (Glasnik Matematicko-Fizicki i Astronomski) Drustvo Matematicura i Fizicara [Societas Mathematicorum et Physicorum croatiae], Ilica 16, Zagreb, Yugoslavia

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Periodica Polytechnica (Electrical Engineering—Elektrotechnik) P.O. Box 440, Budapest 62, Hungary

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Philosophy of Science Philosophy of Science Association, 18 Morrill Hall, Department of Philosophy, Michigan State University, East Lansing, Mich. 48823, USA

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Photographic Journal Royal Photographic Society, 14 South Audley Street, London, W1Y 5DP, England

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Photographic Science and Engineering Society of Photographic Scientists and Engineers, Suite 204, 1330 Massachusetts Avenue N.W., Washington, D.C. 20005, USA

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Photogrammetric Engineering American Society of Photogrammetry, 105 North Virginia Avenue, Falls Church, Va. 22046, USA

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Physics Education Institute of Physics, 47 Belgrave Square, London, SW1X 8QX, England

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Physics of Fluids American Institute of Physics, 335 East 45th Street, New York, N.Y. 10017, USA

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Physica Norvegica Institute of Physics, University of Oslo, Blindern, per Oslo, Norway

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Phys. Rev. B (USA)
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Phys. Rev. Lett. (USA)
Physical Review Letters American Physical Society, 335 East 45th Street, New York, N.Y. 10017, USA

Phys. Scripta (Sweden)
Physica Scripta Royal Swedish Academy of Sciences, S-104 05 Stockholm 50, Sweden

Phys. Sintering (Yugoslavia)
Physics of Sintering Institut Boris Kidric, P.O. Box 522, Beograd, Yugoslavia

Phys. Status Solidi (Germany)
Physica Status Solidi Publication address : Akademie-Verlag, Leipziger Strasse 3-4, 108 Berlin, Germany

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Physics Today American Institute of Physics, 335 East 45th Street, New York, N.Y. 10017, USA

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Plaste und Kautschuk VEB Deutscher Verlag fur Grundstoffindustrie, 7031 Leipzig, Karl-Heine-Strasse 27, Germany

Plating (USA)
Plating American Electroplaters' Society, 56 Melmore Gardens, East Orange, N.J. 07017, USA

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Plessey Electronics Plessey Electronics Group, Surrey House, Temple Place, Victoria Embankment, London, WC2R 3BZ, England

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Podstawy Sterowania Zaklad Systemow Automatyki Kompleksowej PAN, Gliwice, ul. Zwyciestwa 21, Poland

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Pol. Eng. (Poland)
Polish Engineering WHZ-Polexportpress, Warszawa, Marszalkowska 124, Poland

Pol. Tech. Rev. (Poland)
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Revista Electrotecnica Asociacion Argentina de Electrotecnicos, Posadas 1659, Buenos Aires, Argentina

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Revista Electrotecnica Asociacon Electrotecnica Espanola, Aribau 61, Barcelona, Spain

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Revista Espanola de Electronica Ediciones Tecnicas 'Rede', Apartado 5252, Barcelona, Spain

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Revue de la Faculte des Sciences de l'Universite d'Istanbul (Istanbul Universitesi Fen Fakultesi Mecmuasi) Serie C (Astronomie, Physique, Chimie) Beyazit, Istanbul, Turkey

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Revista de Fisica Escola Nacional de Engenharia, Instituto de Oleos, Av. Maracana 252, Rio de Janeiro., Brazil

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Revue Francaise d'Automatique Informatique Recherche Operationnelle Formerly: *Revue Fr. Inf. & Rech. Oper. (France)* Centrale des Revues Dunod-Gauthier-Villars, 120 rue du Cherche-Midi, Paris 6, France

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Revista de Geofisica Instituto Nacional de Geofisica, Serrano 123, Madrid 2, Spain

Rev. Geophys. & Space Phys. (USA)
Reviews of Geophysics and Space Physics American Geophysical Union, 2901 Byrdhill Road, Richmond, Va. 23228, USA

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Revista Mexicana de Fisica Sociedad Mexicana de Fisica, Apartado Postal No.20-364, Mexico 20, D.F, Mexico

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Reviews of Modern Physics American Institute of Physics, 335 East 45th Street, New York, N.Y. 10017, USA

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Revista de la Real Akademia de Ciencias Exactas, Fisicas y Naturales de Madrid Valverde 22, Madrid 13, Spain

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Review of the Radio Research Laboratories Tokyo, Japan

Rev. Sci. Instrum. (USA)
Review of Scientific Instruments American Institute of Physics, 335 East 45th Street, New York, N.Y. 10017, USA

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Revue Technique Merlin Gerin Cedex 83, 38 Grenoble-gare, France

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Revista de Telecomunicacion Consejo Tecnica de Telecomunicacion, Palacio de Comunicaciones, Apartado 936, Madrid, Spain

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Revue Francaise de l'Electricite 33 rue de Naples, Paris 8, France

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Revue Roumaine des Sciences Techniques. Serie Electrotechnique et Energetique Academia Republicii Populare Romine. Editorial address: Sos. Vitan 236, Bucuresti, Rumania

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Rhodesian Engineer Rhodesian Institution of Engineers, P.O. Box 660, Salisbury, Rhodesia

Ric. Autom. (Italy)
Ricerche di Automatica ANIPLA (Italian Association for Automatic Control), Piazza Belgioioso 1, 20121 Milano, Italy

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Ricerca Scientifica Supplemento Consiglio Nazionale delle Richerche, 7 Piazzale delle Scienze 00100, Roma, Italy

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Ricerche Spettroscopiche Specola Vaticana, Citta dei Vaticano, Italy

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Rivista dell'Informazione (Information Review) Via Tiberio Imperatore 79, 00145 Roma, Italy

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Rivista del Nuovo Cimento Societa Italiana di Fisica, Via Degli Andalo, 2, Bologna 40124, Italy, Italy

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RSC Railway System Controls Simmons-Boardman Publishing Corp., 508 Birch Street, Bristol, Conn. 06010, USA

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South African Computer Bulletin Computer Society of South Africa, P.O. Box 1207, Johannesburg, South Africa

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Sahko Electricity in Finland Sarkiniementie 3, Helsinki 21, Finland

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Schweissen + Schneiden Deutscher Verlag fur Schweisstechnik (DVS) GmbH, Dusseldorf, Schadowstrasse 42, Germany

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Science and Culture Indian Science News Association, 92 Acharya Prafullachandra Road, Calcutta 9, India

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Science and Engineering Reports of Saitama University, Series C Urawa-City, Saitama-ken, Japan

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Science and Technology International Communications, 205 East 42nd Street, New York, N.Y. 10017, USA

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Sdelovaci Technika Dittrichova 9, Praha 2, Czechoslovakia

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SERT Journal Society of Electronic and Radio Technicians, 8 Charing Cross Road, London. WC2H OHP, England

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Soviet Astronomy-AJ [Translation of: *Astron. Zh. (USSR)*] American Institute of Physics, 335 East 45th Street, New York, N.Y. 10017, USA

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Soviet Automatic Control [Translation of: *Avtomatika (USSR)*] Institute of Electrical and Electronics Engineers, 345 East 47th Street, New York, N.Y. 10017, USA

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Soviet Physics-Solid State [Translation of: *Fiz. Tver. Tela (USSR)*] American Institute of Physics, 335 East 45th Street, New York, N.Y. 10017, USA

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Spaceflight British Interplanetary Society, 12 Bessborough Gardens, London, SW1, England

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Street and Highway Lighting Street and Highway Safety Lighting Bureau, 110 East 59th Street, New York, N.Y. 10022, USA

Stanki & Instrum. (USSR)
Stanki i Instrument Mashinostroenie, ul. 25 Oktyabrya, d. 10, Moskva, K-12, USSR [English translation in: *Mach. & Tooling (GB)*]

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State Institute for Technical Research. Publications Lonnrotinkatu 37, Helsinki, Finland

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Stockholms Obs. Ann. (Sweden)
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Strain British Society for Strain Measurement, 281 Heaton Road, Newcastle upon Tyne, NE6 5QB, England

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Studies in Applied Mathematics Massachusetts Institute of Technology, 50 Ames Street, Cambridge, Mass. 02142, USA

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Sudan Eng. Soc. J.
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Tekhnika Kino i Televideniya Leningradskii Prospekt 47, Moskva A-167, USSR

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Tekhnicheska Misul Bulgarska Akademija na Naukite, Kv. Geo Milev, Ul. 36, BAN, IV Blok, Sofia, Bulgaria

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Teknisk Tidskrift svenska Teknologforeningen, Box 40058, 103 42 Stockholm 40, Sweden

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Telecomunicazioni Societa Italiana Telecomunicazioni Siemens s.p.a., 20149 Milano, Piazzale Zavattari 12, Italy

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Verhandlungen der Deutschen Physikalischen Gesellschaft 645 Hanau, Heraeusstrasse 9, Germany

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Vestnik Moskovskogo Universiteta. Matematika, Mekhanika Izdatel'stvo Moskovskogo Universiteta, Moskva, K-9, Ul. Gertsena Dom 5/7, USSR

Vestsi Akad. Navuk BSSR Ser. Fiz. Energ. Navuk
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Weld. Prod. (GB)
Welding Production [Translation of: *Svar. Proiz. (USSR)*] Welding Institute. Abington Hall, Abington, Cambridge, England

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Wireless World IPC Electrical-Electronic Press, Dorset House, Stamford Street, London, SE1, England

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WSW Technische Berichte Siemens und Halske. Wiener Schwachstrom Werke, Apostelgasse 12, 1031 Wien, Austria

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Yadernaya Fizika Ulitsa Vavilova 44, Korp 2, Moskva V-333, USSR [English translation in: *Sov. J. Nucl. Phys. (USA)*]

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Yogyo-Kyokai-Shi (Journal of the Ceramic Society of Japan) 22-17, 2-chome, Hyakunin-cho, Shinjuku-ku, Tokyo 160, Japan

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Acta Met. (USA)
Acta Phys. Austriaca
Acta Phys. Acad. Sci. Hung. (Hungary)
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Acta Phys. Pol. B (Poland)
Acustica (Germany)
Adv. Phys. (GB)
Akust. Zh. (USSR)
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Ann. Phys. (Germany)
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Astrofizika (USSR)
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Astrophys. J. (USA)
Astrophys. J. Lett. Ed. (USA)
Astrophys. J. Suppl. (USA)
Astrophys. Lett. (GB)
Astrophys. Space Sci. (Netherlands)
Aust. J. Phys. (Australia)
C. R. Hebd. Sean. Acad. Sci. B (France)
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Chem. Phys. Lett. (Netherlands)
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High Temp. Sci. (USA)
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IEEE Trans, Nucl. Sci. (USA)
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Indian J. Pure & Appl. Phys.
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J. Phys. Soc. Jap. (Japan)
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JETP Lett. (USA)
Lett. Nuovo Cimento (Italy)
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Mon. Not. R. Astron. Soc. (GB)
Nucl. Fusion (Austria)
Nucl. Instrum. & Meth. (Netherlands)
Nucl. Phys. A (Netherlands)
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Acta Polytech. Scandinavica, El.
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ch	R S B	Ч ч	s	R S B	С с
d	R S B	Д д	sh	R S B	Ш ш
e	R S B	Е е	shch	R	Щ щ
ë	R	Ё ё	sht	B	Щ щ
é	R	Э э	t	R S B	Т т
ê	R B	Ѣ ѣ	t'	R B	ТЬ ть
f	R S B	Ф ф	t'	S	Ћ ћ
g	R S B	Г г	th	R	Ѳ ѳ
i	R S B	И и	ts	R S B	Ц ц
ī	R	І і	t-s	R S B	ТС тс
ĭ	R B	Й й	u	R S B	У у
j	S	Џ џ	ŭ	B	Ъ ъ
j'	S	Ђ ђ	ū	B	Ѫ ѫ
k	R S B	К к	v	R S B	В в
kh	R S B	Х х	y	S	Ј ј
l	R S B	Л л	ȳ	R	Ы ы
l'	R B	ЛЬ ль	y̆	R	Ѵ ѵ
l'	S	Љ љ	ya	R B	Я я
m	R S B	М м	yu	R B	Ю ю
n	R S B	Н н	z	R S B	З з
n'	R B	НЬ нь	zh	R S B	Ж ж
n'	S	Њ њ	‘	R	Ъ ъ
o	R S B	О о	’	R B	Ь ь

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